

PHENIX WEEKLY PLANNING



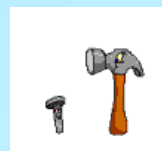
7/9/2009
Don Lynch

This Week 7/6 - 7/10

Task

Start Date End Date

- | Task | Start Date | End Date |
|--|-------------|----------|
| • Remove interlock from Shield Wall (1 hr) | Done | Done |
| • Purge Flammable gas from IR detectors | Done | Done |
| • Install electric circuits to burn-in test stand for AC and heaters & to storage racks for humidity control | Done | Done |
| • Work permits for Shutdown start & DC repair | Done | Done |
| • HV warning lights for cosmic ray & dark current TS in factory | Done | Done |
| • Work permits for RPC3, MuTrigger/MuTr N&S | in progress | 7/10 |
| • Fabricate RPC3 N base, pitch support, lifting fixtures and $\frac{1}{2}$ octant 7&8 vertical support | in progress | 7/10 |
| • Disassemble and stow Wall & Base (3 -4 days) | in progress | 7/9 |
| • Fabricate Base Locking/Installation fixture | in progress | 7/10 |
| • Fabricate RPC3 N survey fixture | in progress | 7/10 |
| • Fabricate RPC3 adjustable $\frac{1}{2}$ octant cradle | in progress | 7/10 |
| • cleaning and testing of MuTracker HV splitter boxes | in progress | 7/10 |
| • DC FEM Troubleshooting/Repair | in progress | 7/10 |
| • Order Tilt Table Lifters | in progress | 7/10 |
| • Order burn-in test cover and AC control | in progress | 7/10 |
| • Get list of RPC3N installation hardware and place orders | in progress | 7/10 |
| • Fan Tray replacement evaluation and priority plan | in progress | 7/10 |
| • Remove ladder & dumb waiter from EC (1/2 day) | 7/10 | 7/10 |



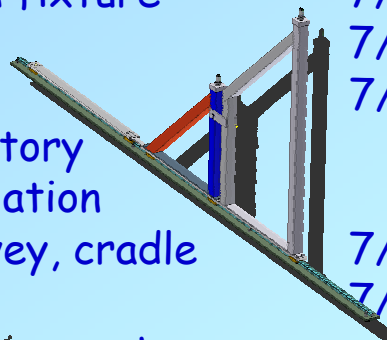
TECHNICAL SUPPORT NOON

Next Week 7/13 - 7/17

Task

Start Date End Date

- Receive RPC3 N lifting fixture parts at factory 7/13 7/13
- Fold up EC platforms (1/2 day) 7/13 7/17
- Test base RPC3 N locking/installation fixture 7/13 7/17
- Test base RPC3 N survey fixture 7/13 7/17
- Test RMC higher comm speed on EC 7/13 7/17
- Simulated RPC installation at RPC Factory
(practice/tests) commission all installation
components base, locking/install, survey, cradle 7/13 7/31
- Remove MuID collars 7/15 7/15
- Receive complete RPC3 N base, pitch support,
lifting fixtures & $\frac{1}{2}$ octant 7&8 vertical support 7/15 7/15
- Test and commission RPC3N lifting fixtures at
factory with S. Kane/designee as witness 7/15 7/15
- Move MMS South 7/17 7/17



Continuing Tasks currently underway

Task	Start Date	End Date
•Order MuID cable management components	in progress	8/1
•PC1 East repair fixture: order raw materials, order off-the-shelf components & hardware, receive and inspect components	in progress	8/1
•Prep RPC3 N racks for installation	in progress	8/14
•Review PHENIX RPC3 N lifting fixture design and run acceptance test in RPC Factory (3 days)	waiting for parts	7/15
•Assemble HV, experimental gas and N2 gas distribution and install tent	in progress	7/15
•Finalize gap 5 N cable and pipe reorganization	in progress	7/15
•Field Fit $\frac{1}{2}$ octant retaining arm/clamps design to fit	in progress	7/15
•Assemble Dummy $\frac{1}{2}$ octant and test with tilt table and Burn-in test stand field fit	in progress	7/24
•Order & receive parts for gap5 N cable management	in progress	7/24
•Evaluate Gap 5 grout at Factory	in progress	7/24
•Design concept for Base locking/Installation fixture for RPC3N	in progress	7/24
•Design RPC3 adjustable $\frac{1}{2}$ octant cradle	in progress	7/24
•Receive and test MuTrigger FEE's	in progress	7/24
•Receive MuTrigger FEE's cable and connectors, prep and bundle for installation	in progress	7/24



Continuing Tasks currently underway (cont'd)

Task	Start Date	End Date
• Install MuTrigger FEE Sta 2/3 cable Management and cable runs behind MMS	in progress	7/28
• Move PHENIX-North tunnel shielding, remove PHENIX-North vapor barrier and crystal palace, repair/replace area lighting	in progress	7/31
• Move MuID piping, piping supports out of Gap 5 to temporary store area	in progress	7/31
• Move MuID cables and cable tray out of Gap 5 to temporary store area	in progress	7/31
• Plan and install 2 new PHENIX gas pad expansion pads	in progress	9/4
• Spec, purchase, install and test instrumentation and monitoring, cables, etc.for rack room AC3 and new electronics water chiller	in progress	10/31
• Spec, purchase, install and test instrumentation and monitoring, cables, etc.for non-PHENIX fire alarm status panel	in progress	10/31
• Spec, purchase, install and test power wiring for new DCM racks	in progress	10/31
• Start Design supports for Beampipe upgrade	in progress	11/30
• Design & Fabrication support for VTX	in progress	11/30
• Design support for FVTX	in progress	11/30
• Design support for FOCaI	in progress	11/30
• Fan Tray replacements (as time permits)	in progress	11/30

Detector Subsystems with no specific shutdown support requests

Aerogel
BBC
EMCal
HBD (may change)
MPC
MuID
RICH
RXNP (no work anticipated)
TEC
TOF
TOF West



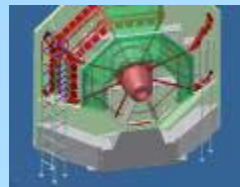
Expected IR Configuration During Shutdown '09

7/6 - 7/17	Run configuration EC and WC can be moved east/west ~3 ft
7/17-7/22	MMS moved south, CM in run position EC & WC can be moved east/west ~3 ft
7/22-7/28	MMS north, Run configuration WC can be moved east/west ~3 ft EC in AH
7/28-10/1	MMS south, CM in run position, EC in AH WC in west position (against wall), scaffolding in station 1 and station 2/3 south
9/25-11/10	MMS, CM & WC positions TBD, EC in AH
11/10-12/1	MMS & CM in run position, EC and WC can be moved east west ~3 ft

These dates are approximate and subject to change

Remainder of July Schedule

Task	Start Date	End Date
• Disconnect EC and Move to AH	7/20	7/22
• Open MMN hatch and O2 check atmosphere	7/20	7/24
• Install ladder/access platform and work platforms for work above MuID steel (3 days)	7/20	7/24
• Move MuID plumbing rack on pedestal away From gap 5	7/20	7/30
• Move MMS North	7/22	7/22
• Install IR floor plates, 12 ton cart & manlift	7/22	7/22
• Move MuID collars to AH	7/23	7/23
• Remove 4 MMS lampshades (2-3 days)	7/24	7/28
• Reinstall ladder and dumb waiter on EC in AH and fold down EC platforms (1 day)	7/24	7/31
• ID/label gap 5 N cables & pipes and move out of gap 5	7/27	7/30
• Troubleshoot MUTrigger FEE's in MMN	7/27	8/31
• Troubleshoot MUTr decaps in MMN	7/27	8/31
• Move MMS South	7/28	7/28
• Install Station 1 Scaffolding (3 days)	7/28	7/30
• Inspect Station 1 Scaffolding (1/2 day)	7/30	7/31
• Install MuTrigger Station 1 S FEE cable management	7/30	7/31



August Schedule

Task

Start Date

End Date

- Reconnect EC utilities for shutdown mode
- Survey tapped holes on MuID5 steel and survey east and west RPC3 N support bases (3 days)
- Drill and tap MuID gap 5 steel top and north
- Install RPC3 N support base & grout (4 days)
- Install Station 3 N pitch control (unistrut rails) on pedestal and east and west gap 5 north walls and attach to support bases (tall column)
- Install MMS station 2/3 scaffolding
- Install Station 1 FEE's & Electronics and connect cables
- MuTr decapacitations & MuTr FEE trouble-Shooting in MMS Sta 1&3
- MuTr Rack 2 troubleshooting
- Vendor install Ar dewar & vaporizer
- Install rails and fences on gas pad
- DCM rack electric prep
- MuTr HV and FEE test and evaluation as MuTrigger FEE's & RPC's are installed
- Set up PHENIX "stage" for Summer Sunday Tour
- Tear down and remove PHENIX "stage" for Summer Sunday Tour



8/3 8/7

8/3 8/14

8/3 8/14

8/3 8/14

8/3 8/14

8/3 8/14

8/3 8/28

8/3 8/28

8/3 8/28

8/3 8/28

8/3 8/28

8/3 8/30

8/3 11/30

8/5 8/7

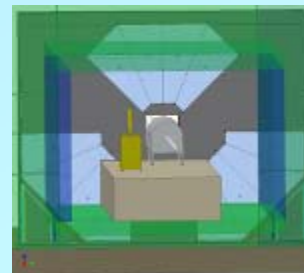
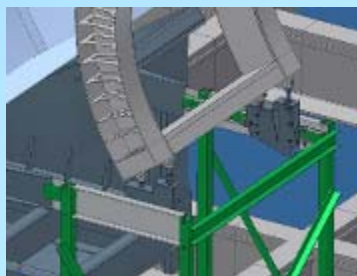
8/10 8/11

August Schedule

Task

Start Date End Date

- Erect PC1 repair tool 8/12 8/14
- First $\frac{1}{2}$ octant ready for installation 8/17 8/17
- Disassemble DC/PC1 cables & piping 8/17 8/28
- Install Station 1 MuTrigger FEE air & water and test 8/17 9/11
- Install new gap5 N cable & pipe supports, cables and piping and leak test piping 8/17 9/30
- Install RPC3 N $\frac{1}{2}$ Octants (16 days) 8/17 9/30
- Final leak test new Ar dewar/vaporizer and Closeout job 8/28 9/4
- Move DC on EC to access PC1 east 8/31 9/4
- Install Empties racks on gas pad 8/31 9/4
- Install MuTrigger FEE station 2/3 FEE's & Electronics & connect cables 8/31 9/25

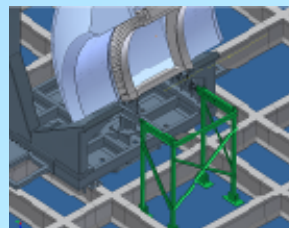


September Schedule

Task

Start Date End Date

- Close MMN Hatch and closeout WP
- Rack room re-organization
- CM Power upgrade (as toime permits)
- Labor Day Holiday - no work
- Remove failed PC1 east module
- Install spare PC1 east module
- Install 2 RPC3 N racks (1/2 day)
- Test PC1 spare and verify operation
- Install MuTrigger FEE station 2/3 air & water plumbing and test
- Move DC on EC back to normal position
- Reconnect cables and piping on DC and PC1 East
- Remove station 1 south scaffolding
- Install rack components in RPC3 N racks
- Final verification tests on PC1 east repair



Start Date	End Date
9/1	9/1
9/1	11/30
9/1	11/30
9/7	9/7
9/8	9/11
9/8	9/11
9/8	9/18
9/14	9/17
9/14	10/9
9/18	9/18
9/21	9/25
9/21	9/25
9/21	9/30
9/28	9/30

TECHNICAL SUPPORT 2009

October Schedule

Task

Start Date End Date

- Disassemble and store PC1 east repair fixture 10/1 10/2
- Attach cables to RPC3 N racks and to Detector $\frac{1}{2}$ octants 10/1 10/9
- Install new PHENIX north tunnel thermal/vapor barrier replacing crystal palace (1 week) 10/1 10/30
- DCM rack supply& Return plumbing 10/5 10/16
- Remove MMS Sta 2/3 scaffolding 10/12 10/23
- Commission RPC3 N racks and detectors 10/12 10/30
- DCM rack internal plumbing 10/19 10/30
- Reinstall MMS lampshades (2 days) 10/26 10/30



November Schedule

Task

Start Date

End Date

TECHNICAL SUPPORT NOON

- Install heaters and thermostat(s) for RPC3N thermal control 11/2 11/6
- Reinstall PHENIX North tunnel shielding (3 days) 11/2 11/6
- Cooldown for Run 10 Starts 11/7 11/7
- Move MuID Collars to IR 11/7 11/7
- Disconnect electric & Fiber in EC 11/2 11/7
- Remove ladder & dumb waiter from EC & Fold up EC platforms in AH (1 day) 11/9 11/10
- Veterans Day Holiday - no work 11/11 11/11
- Remove IR Floor plates and move 12 ton cart to AH 11/12 11/12
- Move EC to IR 11/12 11/13
- Reconnect electric and fiber to EC 11/16 11/20
- Reinstall ladder & dumb waiter on EC & Fold down EC platforms in IR (1 day) 11/16 11/20
- Pink sheets, white sheets, blue sheets 11/16 12/1
- Move MMS north, Install MuID Collars 11/23 11/25
- Assemble shield wall base and wall in AH 11/23 11/30
- Thanksgiving Holiday - no work 11/26 11/27
- Roll in shield wall 11/30 11/30
- Start Run 10, All shutdown activities completed 12/1 12/1



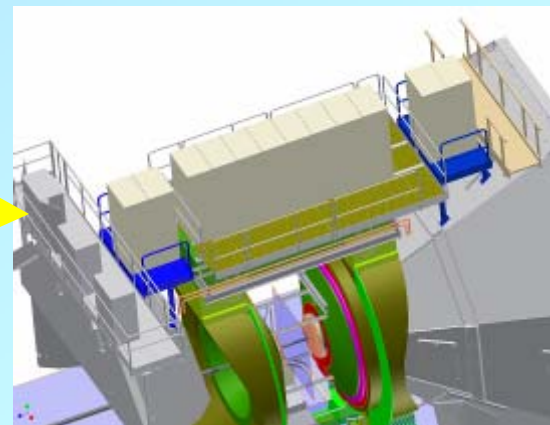


Other potential work this shutdown:

1. Remove the RPC prototype absorber



2. Prep Bridge for future upgrades



2009 Building Maintenance Issues

- Roof leaks in utility bathroom at northwest corner behind tech offices and over door between rack room and assembly hall.
- Heat wrap tape for trailer bathroom toilet drains to prevent freeze/clogging in winter.
- Improved Rack Room AC performance (This item has been addressed time and again but unsatisfactorily. Currently the AC fails periodically and is repaired only to fail again. On-condition maintenance is not adequate...an engineered solution is needed.)
- Icy conditions at mixing house north stairs
- Mixing House loose board ?



Safety, Security, etc.

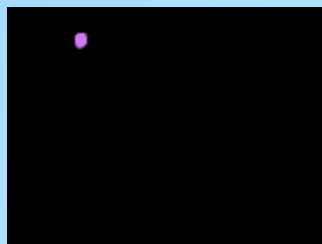
The shutdown has started. We want to be a model of safety at PHENIX. Some things to remember.

1. Use appropriate PPE: gloves when handling materials, hard hats when cranes are in use or when working on lower levels of scaffolds with others working above.
2. During shutdown, PHENIX engineers and technicians, CAD engineers and technicians, bargaining unit workers, etc. may direct you to obey safety rules, barriers, etc. Willful violation of such requests may result in disciplinary actions from PHENIX or Lab management. When we work safely we are ultimately more efficient.
3. Remember to lock up at the end of each day, shifts are over. Techs will lock up before they leave, but others who work late must make sure they lock the doors behind them.
4. Read, understand and sign (original) work permits for tasks you are working on. PDF copies of all PHENIX 2009 shutdown work permits and referenced PHENIX controlled procedures are/will be available on the PHENIX engineering web site.



Where To Find PHENIX Engineering Info

Let's make this a successful shutdown!



Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm